

## ZOOLOGICAL SOCIETY.

March 25, 1851.—William Yarrell, Esq., Vice-President, in the Chair.

DESCRIPTIONS OF NEW SPECIES OF *NASSA*, IN THE COLLECTION OF HUGH CUMING, ESQ. BY ARTHUR ADAMS, F.L.S. ETC.

Subgenus *NASSA*.

Shell cassiform; spire short; inner lip with the callus greatly developed.

## A. Shell ribbed or nodulous.

1. *NASSA CORONULA*, A. Adams. *N. testâ ovato-conicâ, cinerescente, fasciâ supra albâ, infra fusco ornatâ; spirâ brevi; anfractibus ad suturas angulatis, longitudinaliter costatis, costis distantibus rotundis supra nodulosis; labio callo crasso oblecto; columellâ rugosâ; labro extus marginato, intus lirato.*

*Hab.* Corrigidor, Bay of Manila, under stones, low water (H. C.).  
*Mus.* Cuming.

2. *NASSA DISPAR*, A. Adams. *N. testâ ovato-conicâ, ventricosâ, lævi, lutescente, rufo cinereoque varie pictâ; anfractibus supernè gibbosis; labio callo albo mediocri tecto; columellâ transversim corrugatâ; labro anticè dentato, intus lirato.*

*Hab.* Philippines, sandy mud (H. C.). *Mus.* Cuming.

3. *NASSA STIGMARIA*, A. Adams. *N. testâ ovato-ventricosâ, rufescente, albo fuscoque variegatâ et punctatâ; liris granosis transversis ornatâ, granis planis quadratis; labio lævi, callo albo nitido oblecto, labro margine dentato.*

*Hab.* Island of Siquijor, Philippines, under stones (H. C.). *Mus.* Cuming.

4. *NASSA SIQUIJORENSIS*, A. Adams. *N. testâ ovatâ, subturritâ, rufescente, fasciâ pallidâ cinctâ, longitudinaliter costellatâ; suturâ tuberculis moniliformibus ornatâ, costellis permultis confertis, interstitiis transversim striatis; columellâ corrugatâ, labro anticè valdè dentato.*

*Hab.* Island of Siquijor, Philippines (H. C.). *Mus.* Cuming.

5. *NASSA RETECOSA*, A. Adams. *N. testâ ovatâ, acuminatâ; spirâ acutâ, rufescente, suturâ canaliculatâ, cingulis albis transversim et longitudinaliter cancellatâ; labro crenato, anticè dilatato et sinuato; labio callo, subexpanso, anticè recto.*

*Hab.* Albay, Luzon, coarse sand, 6 fathoms (H. C.). *Mus.* Cum.

6. *NASSA VERRUCOSA*, A. Adams. *N. testâ ovato-acuminatâ, spirâ productâ; suturâ canaliculatâ, rufescente, fusco sparsim punctatâ, liris transversis granosis ornatâ, granis rotundis verruciformibus in seriebus obliquis longitudinalibus dispositis; labio valdè calloso, tuberculato, albo; labro margine serrato.*

*Hab.* Eastern Seas.

7. *NASSA VARIEGATA*, A. Adams. *N. testâ ovato-ventricosâ, albido-grisâ, fuscoque variegatâ, longitudinaliter striatâ, liris*

*transversis granosis subdistantibus ornatâ, granis rotundis in seriebus obliquis longitudinalibus dispositis; labio tuberculato callo tenui expanso tecto, labro margine crenato.*

*Hab.* Dalmaguete, island of Negros, Philippines (H. C.). Mus. Cuming.

8. *NASSA CÆLATA*, A. Adams. *N. testâ ovatâ, acuminatâ, sub-turritâ, albidâ, fasciâ rufâ cinctâ, suturâ tuberculis moniliformibus ornatâ, longitudinaliter costellatâ; costellis simplicibus, interstitiis concinnè clathratis, labio callo tenui oblecto, labro margine crenulato.*

*Hab.* Cagayan, Mindanao, sandy mud, 25 fathoms (H. C.). Mus. Cuming.

9. *NASSA RANIDA*, A. Adams. *N. testâ ovatâ, acuminatâ, sub-turritâ, rufescente, cingulis transversis granosis sculptâ, granis elongatis subquadratis in seriebus obliquis longitudinalibus dispositis; columellâ rugosâ; labio non calloso, labro valdè dentato.*

*Hab.* Burias, 6 fathoms, coral sand (H. C.). Mus. Cuming.

10. *NASSA SORDIDA*, A. Adams. *N. testâ ovatâ, albidâ, fusco fasciatâ; suturâ tuberculis moniliformibus ornatâ; longitudinaliter costatâ, transversim valdè lirâtâ; labio callo albo crasso tecto; columellâ corrugatâ; labro margine calloso reflexo.*

*Hab.* Siquijor, on the reefs.

11. *NASSA CUMINGII*, A. Adams. *N. testâ ovatâ, ventricosâ albidâ, rufo nebulosâ; suturâ canaliculatâ, liris transversis granosis sculptâ, granis quadratis in seriebus longitudinalibus dispositis; aperturâ ringente; labio corrugato, tuberculifero; labro intus valde sulcato.*

*Hab.* China. Mus. Cuming. Unique specimen.

12. *NASSA CRENELLIFERA*, A. Adams. *N. testâ ovatâ, acuminatâ, subturritâ, albidâ, fasciâ pallidâ rufâ cinctâ; suturâ canaliculatâ, margine crenellifero, transversim striatâ, longitudinaliter tenuissimè costatâ; columellâ sublevi; labro integro.*

*Hab.* —? Mus. Cuming.

13. *NASSA SULCIFERA*, A. Adams. *N. testâ ovato-ventricosâ; spirâ productâ, cinerescente, luteo-fusco variegatâ, longitudinaliter subplicatâ, transversim lirâtâ; anfractu ultimo infra suturam sulco impresso; labii callo crasso mediocri; collumellâ anticè biphlicatâ; labro intus lirato.*

*Hab.* Algoa Bay.

14. *NASSA CORTICATA*, A. Adams. *N. testâ ovato-conicâ, spirâ productâ, epidermide viridi-fusco oblectâ; anfractibus supernè nodosis; anfractu ultimo anticè cingulâ subnodosâ ornato, posticè nodulis coronato; labio vix calloso; columellâ anticè biplicatâ; labro extus marginato, intus lirato.*

*Hab.* New Zealand.

15. *NASSA LABECULA*, A. Adams. *N. testâ ovato-conicâ, obliquâ; spirâ subacuminatâ, pallidè fuscâ; anfractu ultimo fasciâ fuscâ*

*obsoletâ cincto; anfractibus planulatis supremis costatis, ultimo supernè costato, infernè plano; labii callo expanso, tenui, nitidâ laberculâ fuscâ ornato; labro posticè incrassato, intus dentato.*

*Hab.* Burias, 6 fathoms, coral sand (*H. C.*). Mus. Cuming.

16. *NASSA MULTICOSTATA*, A. Adams. *N. testâ ovatâ, acuminatâ, albo rufoque variegatâ, longitudinaliter costatâ; costis planis obliquis confertis permultis; labio cum callo parvo tecto; columellâ lævi, anticè buplicatâ; labro intus sulcato, margine acuto integro.*

*Hab.* Batangas, island of Luzon, 4 fathoms, coarse sand (*H. C.*). Mus. Cuming.

17. *NASSA COSTATA*, A. Adams. *N. testâ ovato-conicâ, spirâ acutâ, productâ, pallidâ, anfractu ultimo maculâ rufo-fuscâ ornatâ; anfractibus convexiusculis, longitudinaliter costatis, interstitiis planis; anfractu ultimo anticè transversim striato; labio cum callo circumscripto tecto; columellâ transversim rugosâ; labro anticè dentato, intus lirato.*

*Hab.* Island of Burias, sandy mud, 6 fathoms (*H. C.*). Mus. Cuming.

18. *NASSA CALLOSA*, A. Adams. *N. testâ parvâ, ovatâ, spirâ acutâ, albâ fusco-maculatâ, longitudinaliter costatâ, transversim sulcatâ; labio cum callo magno albo nitido expanso tecto; columellâ anticè triplicatâ; labro margine incrassato calloso, intus dentato-lirato.*

*Hab.* Bais, island of Negros, 7 fathoms, sandy mud (*H. C.*). Mus. Cuming.

19. *NASSA GEMMULIFERA*, A. Adams. *N. testâ ovato-conicâ, spirâ acutâ, productâ, cinerescente rufo variegatâ, longitudinaliter plicatâ, transversim cingulatâ, cingulis ad plicas noduliferis; labio cum callo expanso albo tecto; columellâ transversim corrugatâ; labro intus lirato.*

*Hab.* Burias, 6 fathoms, coarse sand (*H. C.*). Mus. Cuming.

20. *NASSA FISSILABRIS*, A. Adams. *N. testâ ovato-conicâ, obliquâ, cinerescente, pallidè fasciatâ, longitudinaliter costatâ, anfractu ultimo anticè transversim sulcato; labio cum callo expanso obfecto; columellâ anticè tuberculis duobus transversis; labro anticè sinuato, posticè valde inciso.*

*Hab.* Cagayan, Prov. Misamis, island of Mindanao, 25 fathoms, sandy mud (*H. C.*). Mus. Cuming.

21. *NASSA NODICOSTATA*, A. Adams. *N. testâ ovato-conicâ, albâ, fasciâ pallidâ fulvâ cinctâ; anfractibus planulatis, longitudinaliter costatis, transversim evanide liris; costis nodis distantibus instructis, supernè nodosis; labio cum callo circumscripto tecto; columellâ rugosâ, anticè acutâ, productâ; labro extus limbato, anticè valde sinuato.*

*Hab.* Island of Corrigidor, 6 fathoms, coarse sand (*H. C.*). Mus. Cuming.

22. *NASSA DELICATA*, A. Adams. *N. testâ ovato-conicâ, subpellucidâ, albâ, fasciâ angustâ, fuscâ, maculisque fuscis ornatâ, lon-*

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gitudinaliter costatâ, costis planulatis supernè nodosis, interstitiis lineis elevatis transversis clathratis; labio calloso; columellâ anticè plicis quatuor; labro margine acuto, intus longitudinaliter sulcato, transversim lirato.

Hab. Sorsogon, Albay, Luzon, coarse sand, 6 fathoms (H. C.).  
Mus. Cuming.

23. *NASSA CANCELLATA*, A. Adams. *N. testâ ovato-conicâ, spirâ acutâ, fulvescenti, fusco variegatâ, longitudinaliter costatâ, costis planis rotundatis, interstitiis concinnè cancellatis; labio callo magno expanso crasso obtecto; columellâ lævi, simplici; labro margine calloso incrassato, anticè subsinuato.*

Hab. Masbate, under stones (H. C.). Mus. Cuming.

24. *NASSA CLATHRATULA*, A. Adams. *N. testâ ovatâ, spirâ acutâ, anfractibus convexis, nived, longitudinaliter costatâ; costis nodulosis, interstitiis valde clathratis; labio cum callo mediocri obtecto; columellâ anticè biplicatâ; labro extus varicoso, intus lirato.*

Hab. Island of Siquijor, deep water, sandy mud (H. C.). Mus. Cuming.

25. *NASSA CRENOLIRATA*, A. Adams. *N. testâ parvâ, ovatâ, pallidâ, lineis angustis transversis fuscis ornatâ, longitudinaliter costatâ, costis nodulosis, supernè nodosis; aperturâ angustâ; labio cum callo obtecto; columellâ plicis quatuor transversis instructo; labro extus marginato, intus valde dentato-lirato.*

Hab. —? Mus. Cuming.

26. *NASSA SINUSIGERA*, A. Adams. *N. testâ ovato-conicâ, obliquâ; spirâ acuminatâ, pallidâ, fusco variegatâ, longitudinaliter costatâ, costis supernè nodulosis, transversim sulcatâ; labio cum callo mediocri tecto; columellâ transversim corrugato-plicatâ; labro anticè valde sinuato.*

Hab. Catbalonga, island of Samaar, 8 fathoms, coarse sand (H. C.).  
Mus. Cuming.

27. *NASSA GENICULATA*, A. Adams. *N. testâ parvâ, ovato-conicâ, fulvâ, albo variegatâ; fasciâ latâ, transversâ, cinereo-fuscâ cinctâ, transversim striatâ, longitudinaliter costatâ; costis geniculatis; labio subcalloso, anticè bituberculato; labro extus incrassato, intus dentato-lirato.*

Hab. Island of Ticao, 4 fathoms, sand (H. C.). Mus. Cuming.

28. *NASSA SPECIOSA*, A. Adams. *N. testâ ovato-conicâ, acuminatâ, lutescente, albo variegatâ, transversim liratâ, liris confertis granulosis, longitudinaliter plicatâ; plicis distantibus obliquis, supernè nodosis, nodulis albis; aperturâ albâ, anticè rufo-fusco maculatâ; columellâ lævi, callo subexpanso tectâ; labro intus evanidè lirato, margine anticè maculâ fuscâ.*

Hab. —? Mus. Cuming.

29. *NASSA OBTUSATA*, A. Adams. *N. testâ ovato-conicâ, spirâ obtusâ, pallidâ, rufo-fusco variegatâ, transversim liratâ, longitudinaliter costatâ, costis distantibus supernè nodosis; labio callo*

*crasso albo oblecto; labro intus incrassato, sulcato et transversim lirato.*

*Hab.* Island of Ticao, coral sand, 7 fathoms (*H. C.*). Mus. Cuming.

30. *NASSA ABYSSICOLA*, A. Adams. *N. testá parvá, ovato-conicá, sordidè albá; costellis confertis longitudinalibus permultis, interstitiis concinnè clathratis ornatá; labio arcuato, mediocriter calloso; labro intus dentato-lirato, extus incrassato.*

*Hab.* Loay, island of Bohol, clayey ground, 60 fathoms (*H. C.*). Mus. Cuming.

31. *NASSA PUSIO*, A. Adams. *N. testá parvá, ovato-conicá, fulvá, fusco variegatá et maculosá; costellis planis, longitudinalibus confertis ornatá; anfractu ultimo anticè sulcato, labio cum callo nitido subexpanso tecto; labro intus sulcato, margine subreflexo.*

*Hab.* Sorsogon, Albay, isle of Luzon, 6 fathoms, coarse sand (*H. C.*). Mus. Cuming.

B. Shell spinulose; inner lip with the callus moderate, defined.

32. *NASSA HISPIDA*, A. Adams. *N. testá ovato-acutá, albidocinerea, rufo-fusco punctatá, nodispinosa, longitudinaliter plicatá; plicis cum seriebus novem tuberculorum spiniformium armatis.*

*Hab.* Loon, island of Bohol, on the reefs, low water (*H. C.*). Mus. Cuming.

Plicated, the rows of tubercles rather close together, the upper row distinct from the rest.

33. *NASSA ECHINATA*, A. Adams. *N. testá elongato-ovatá, albidá, nodispinosa, longitudinaliter plicatá, plicis quinque, seriebus tuberculorum spiniformium armatis.*

*Hab.* Galeo, island of Mindoro, 3 fathoms, sandy mud (*H. C.*).

Plicated, with the upper row of tubercles larger and distinct from the others.

#### Subgenus *EIONE*, Risso.

Shell with the back gibbous; inner lip with the callus greatly developed, surrounding the circumference of the shell.

1. *NASSA CIRCUMCINCTA*, A. Adams. *N. testá ovatá, cinerea, nitidá, dorso gibbosa; spirá brevi, acutá, suturá fuscá; labio cum callo crasso albo nitido tecto, marginibus usque ad spiram decurrentibus fusco marginatis; columellá lævi, anticè uniplicatá; labro calloso marginato, intus lævi.*

*Hab.* Red Sea. Mus. Cuming.

2. *NASSA DORSUOSA*, A. Adams. *N. testá ovatá, depressá; spirá acutá, dorso in medio nodatá, olivacea, lævi, longitudinaliter subplicatá; labio cum callo magno crasso lutescente tecto, marginibus incrassatis usque ad spiram decurrentibus; columellá lævi, labro margine calloso incrassato, intus sublirato.*

*Hab.* Masbate, on the mud-banks at low water (*H. C.*). Mus. Cuming.

3. *NASSA ORBICULATA*, A. Adams. *N. testá semiorbiculari, con-*

*vexo-depressá, lævi, olivaced, apud dorsum gibbá; spirá brevi, labio cum callo expanso crasso tecto, marginibus usque ad spiram decurrentibus, columellá lævi, labro extus calloso incrassato.*

*Hab.* —? Mus. Cuming.

4. *NASSA CALLOSPIRA*, A. Adams. *N. testá ovatá, pallidá, fasciá transversá cineréá ornatá; spirá acutá, transversim líratá, plicis nodosis longitudinalibus instructá; labio cum callo magno albo extenso tecto, marginibus usque ad spiram decurrentibus; columellá anticè biplicatá; labro crasso calloso, marginato, intus valde lírato.*

*Hab.* Island of Burias, 6 fathoms, coral sand (*H. C.*). Mus. Cuming.

5. *NASSA NANA*, A. Adams. *N. testá ovatá, spirá acutá; anfractibus rotundatis, rufescente, fasciá pallidá luteá ornatá, longitudinaliter plicatá, transversim semistriatá; labio cum callo expanso tenui tecto; columellá rugosulá; labro marginato, intus sulcato.*

*Hab.* Dumaguete, island of Negros, coarse black sand, 11 fathoms (*H. C.*). Mus. Cuming.

6. *NASSA BELLULA*, A. Adams. *N. testá ovatá, spirá acuminatá, acutá; anfractibus angulatis, pallidulá, fasciá luteolá ornatá, longitudinaliter plicatá, transversim líratá; interstitiis concinnè longitudinaliter striatis, labio callo magno tecto; columellá rugosá; labri margine rugoso calloso, intus crenulato.*

*Hab.* Catbalonga, island of Samaar, under stones, low water. Mus. Cuming.

7. *NASSA BIMACULOSA*, A. Adams. *N. testá suborbiculari, apud dorsum valde convexá, nodosá; spirá acutá, longitudinaliter subplicatá, anticè transversim sulcatá, olivaced, fasciá pallidá transversá cinctá, labio cum callo crasso albo magno suborbiculari cincto; columellá lævi, anticè uniplicatá; labro valde incrassato marginato, anticè sinuato, intus lírato, extus maculis duabus rufofuscis ornato.*

*Hab.* Island of Siquijor, on mud-banks (*H. C.*). Mus. Cuming.

8. *NASSA LEPTOSPIRA*, A. Adams. *N. testá ovatá, apud dorsum convexá, nodosá; spirá productá, acutá, lutescente longitudinaliter plicatá, anticè transversim striatá, labio cum callo luteo crasso tecto; columellá corrugatá, labro intus lírato.*

*Hab.* Ilo Ilo, island of Panay, on mud-banks, low water (*H. C.*). Mus. Cuming.

[To be continued.]

#### BOTANICAL SOCIETY OF EDINBURGH.

January 13, 1853.—Professor Balfour, President, in the Chair.

The following papers were read:—

1. "On the Lichens used in Dyeing," by W. Lauder Lindsay, M.D.
2. "Remarks on the Flora of the District in the neighbourhood of Peebles," by James Young, Esq. The author gave a brief account of some botanical walks made in the autumn of 1851.
3. "On the Cultivation of *Victoria regia* in Jamaica," by Dr. G.